

PARALLEL DRIVING MECHANISM FOR OPTICAL CHASSIS

ABSTRACT

A parallel driving mechanism for an optical chassis in a scanner includes a
casing, an optical chassis, a linkage member, a screw bar and a driving
member. The casing has two parallel guide rails. The optical chassis has two
rollers at two ends movably resting on the guide rails and two pivotal joints.
The linkage member has two symmetrical upper links pivotally engaging
with two symmetrical lower links on two sleeves which have opposite
internal screw threads formed therein. The driving member may rotate the
screw bar which moves the sleeves to move toward or against each other so
that the upper and lower links may be extended or withdrawn to move the
optical chassis moving reciprocally on the guide rails to perform scanning
operation.

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